CoMPASS™

Compact Multi-Purpose Advanced Stabilized System - Maritime

General

DCoMPASS™ is a leading member of Elop's battle-proven DCoMPASS™. stabilized EO payload family, in service with leading customers worldwide

- Highly stabilized, multi-sensor, electro-optical payload
- Optimized, qualified and certified for harsh marine environment
- Superb day and night ISTAR capabilities
- Single LRU integrating 5 major EO elements – thermal imager, color TV camera, laser rangefinder, laser designator and laser illuminator.

Applications

- Coastal patrol
- Electro-optic director
- Offshore patrol
- Navigation aid

Elbit Systems
Electro-optics - Elop

CoMPASS™

Compact Multi-Purpose Advanced Stabilized System

Main advantages & Features

- TV and thermal imager
- Compact and lightweight design permits simple integration and easy maintenance
- Simple system Integration to the ship BMS, radar and fire control system
- Advanced video enhancement package including: haze penetration, color restoration and sharpening features.
- Automatic tracking of dynamic targets; area scanning (with automatic patterns)
- Target designation and high repetition range measurements

Technical Data

System

- Diameter 15″
- Weight <38 Kg
- Angular coverage
  - Azimuth N x 360º
  - Elevation +85º to -35º
- Environmental conditions MIL-STD-810F

Day Channel (HD)

- Camera type Large format digital CCD color camera
- Field of View (FOV)
  - Narrow 0.6° x 0.45°
  - Wide 21.25° x 16°
  - SWFOV 25° x 19°

Thermal Imager

- FLIR Cooled 3rd generation 3-5 µm FPA with 640 x 512 pixels
- FOV

	FLIR A-TOPAZ	FLIR B-LOTUS
Wide	24° X 18°	26° X 21°
Medium	Continuous	6.5° x 5.25°
Narrow	0.8° X 0.6°	1.8° x 1.5°

Laser Sensors

- Laser Rangefinder (Eyesafe)
  - Wavelength 1.54 µm
  - Rate 1/5/10 pps
- Dual Wavelength Laser Target Designator & Rangefinder (LRFTD)
  - Transmitter Diode-pumped advanced technology
  - Wavelength 1.064 µm / 1.57 µm
  - Max pulse rate 20pps
- Laser target illuminator/pointer
  - Wavelength 830 nm (NVG compatible)

Interface Communications

- RS422
- MIL-STD-1553
- Ethernet

Video Output

- PAL, NTSC

Additional features

- Auto-tracker
- Picture In Picture (PIP)

Elbit Systems Electro-optics - Elop

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